

Abstract

an entire

A method of manufacturing ~~pistons~~ and components thereof,

piston heads for example, especially intended for internal-

combustion engines, wherein in an initial manufacturing step

a blank that will eventually constitute the piston ~~or piston~~

~~component~~ is preliminarily forged along a prescribed axis,

shaping appropriate contours, and wherein in at least one

subsequent manufacturing step the preliminarily shaped piston

is finally forged along at least one other axis, creating

additional contours.

SECRET

- 2 1. blank
3 1'. axis
4 1". axis
5 2. cavity
6 3. circumference
7 4. upper face
8 5. structures
9 6. side
10 8. excess material
11 9. excess material
12 10. forging tool
13 11. upper die half
14 12. lower die half
15 13. tool part
16 14. tool part
17 15. tool part
18 16. tool part
19 17. tool part
20 18. piston-and-cylinder mechanism
21 19. surface
22 20. surface
23 21. circumference
24 22. skirt
25 23. web